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## **CLAIMS**

- 1.-39. (canceled)
40. (previously presented) An implantable medical device comprising:  
an input adapted to receive a blood flow signal representing a velocity of  
blood flowing through a coronary sinus of a patient's heart;  
an input adapted to receive a sensed signal representing electrical activity  
within the patient's heart;  
alarm circuitry operatively coupled to the blood flow signal and the sensed  
signal;  
alarm means for alerting the patient to the presence of a potentially  
deleterious physiologic condition; and  
a microcomputer circuit configured to activate the alarm circuitry to thereby  
activate the alarm means as a function of the blood flow signal and  
the sensed electrical activity signal.
41. (previously presented) The device of claim 40, wherein the  
microcomputer circuit is configured to compute a mathematical integral of at least  
one of the blood flow signal and the sensed electrical activity signal.
42. (original) The device of claim 41 further including a digital controller/timer  
circuit configurable by the microcomputer circuit to output pacing stimuli as a  
function of the blood flow signal and the sensed electrical activity signal.